Contents Index – Volume 42

Stable Nitrones from 17β-Hydroxylamine Derivatives of 8β- and 8α-Estrone.
Peter Kaspar and Herbert Witzel ..3082.....1

Characteristics of the Cytoplasmic and Nuclear Dihydrotestosterone Receptors of Human Thymic Tissue.
Charles J. Grossman, Leon J. Sholiton, and James L. Helmsworth ..3088.....10

Development of a Specific Radioimmunoassay for Cortisol 17-Butyrate.
G.N. Smith, Y. Foon Lee, D.E. Bu'Lock, P. August, and D.C. Anderson ..3102.....23

Cardiac Glycosides: 2. Synthesis of Glucose and Galactose Analogs.
Masaru Kihara, Kouichi Yoshioka, Eitaro Kitatsuji, Dwight S. Fullerton, and Douglas C. Rohrer ..3117.....35

Metabolism of ^{3}H-Estradiol-17β by Cultures of Isolated Rat Sertoli Cells and the Effect of FSH: Presence of 16α-Hydroxylase.
R.K. Tcholakian, A. Steinberger, and J. St. Pyrek ..3130.....49

In Vivo Patterns of Circulating Testosterone Following Castration and Intra-Muscular Testosterone Propionate Injections of Adult Male Rats.
Robert J. Keating and Robert K. Tcholakian ..3136.....67

The Roles of NADH in the Support of Steroid Aromatization by Human Placental Microsomes.
Leon A. Sheean and Robert A. Meigs ..3135.....79

Kinetics of Inhibition of Estrogen 2-Hydroxylase by Various Haloestrogens.
Robert W. Brueggemeier and Judy G. Kimball ..3142.....95

Metabolism of Bile Acid Oxazoline Derivatives by Hepatocyte Monolayer Cultures and Intestinal Anaerobic Bacteria.
P.B. Hylemon, R.J. Fricke, W.M. Kubaska, B.I. Cohen, and E.H. Mosbach ..3145.....107

Metabolism of 17α-Methyltestosterone in the Rabbit: C-6 and C-16 Hydroxylated Metabolites.
John F. Templeton and Chung-Ja Choi Jackson ..3131.....115

Immunoassay of Unconjugated Estriol in Serum of Pregnant Women Monitored by Chemiluminescence.
W. Klingler, O. Haupt, G.v. Postel and R. Knuppen ..3138.....123

Alterations in the Androgen Metabolism of the Female Guinea-Pig During Pregnancy.
G. Despres and N. Rigaudiere ..3139.....137

Effect of 1α,24 R,25-Trihydroxycholecalciferol on Isolated Parathyroid Cells Secretion.
M. Gruson, J. Demignon and L. Miravet ..3140.....147

A Convenient Equilibrium Separation Method for Competitive Protein-Binding Assay of Corticosterone in Rat Serum.
Stephen Wade ..3141.....153

Evidence of 2-Hydroxylation of Estradiol-17β 17-Glucuronide by Male Rat Liver Microsomes.
Kazuhiro Watanabe and Itsuo Yoshizawa ..3153.....163

Synthesis and Biological Activity of Some 3-Amino Compounds Related to Digoxigenin.
David C. Humber, Paul S. Jones, Gordon H. Phillipps, Malcolm G. Dodds and Phillip G. Dolamore ..3154..... 171

Synthesis and Biological Activity of Some Cardiotonic Compounds Related to Digitoxigenin.
David C. Humber, Gordon H. Phillipps, Malcolm G. Dodds, Phillip G. Dolamore and Ian Machin ..3155.....189

Characteristics of Cholic Acid Uptake in Primary Cultured Hepatocytes.
Seitaro Ohkuma, Jun-ichi Tamura and Kinya Kuriyama ..3161..... 205

Marine 4-Methyl Sterols: Synthesis of C-24 Epimers of 4α,24-Dimethyl-5α-cholestan-3β-OL and 360 MH_Z ^{1}HNMR Comparisons to the Natural Product from Plexaura Homomalla.
W.C. Dow, T. Gebreyesus, S. Popov, R.M.K. Carlson and Carl Djerassi ..3172..... 217

Role of Monoamine Oxidase-B in Medroxyprogesterone Acetate (17-Acetoxy-6α-Methyl-4-Pregnene-3, 20-Dione) Induced Changes in Brain Dopamine Levels of Rats.
Pushpa Tandon, M.L. Gupta, J.P. Barthwal, T.K. Gupta, S.S. Parmar, and K.P. Bhargava..3101.....231

Synthesis of some Steroid Spin Labels.
J.R. Dodd and Abraham E. Mathew..3157.....241

Rapid Corticosterone Pulses: Confirmation by an Alleged Disconfirmation?
Robert W. Reynolds, Steve Calvano, Dennis R. Harris and L. Donald Keith ..3158.....249

Non-Estrogenic Metabolites of Diethylstilbestrol Produced by Prostaglandin Synthase Mediated Metabolism.
Gisela H. Degen and John A. McLachlan..3164.....253

Steroids in Porifera II. Steroid Derivatives from two Sponges of the Family *Halichondriidae* Sokotrasterol Sulfate, a Marine Steroid with a new Pattern of Side Chain Alkylation.
T.N. Makarieva, L.K. Shubina, A.I. Kalinovsky, V.A. Stonik and G.B. Elyakov ..3165.....267

The Effects of Adrenal and Gonadal Steroids and K^+-Canrenoate on the Metabolism of Aldosterone by Rat Liver Microsomes.
Syed A. Latif, Martin J. McDermott and David J. Morris..3167.....283

Conversion of Progesterone to Corticosteroids by the Midterm Fetal Adrenal and Kidney.
Patricia M. McShane and Montserrat deM. Fencl..3174.....299

Novel Nuclear Methylation of Sterols by the Nematode *Caenorhabditis Elegans*.
David J. Chitwood, William R. Lusby, Ruben Lozano, Malcolm J. Thompson and James A. Svoboda..3177.....311

Androgenic Modulation of Progesterone Metabolism by Rat Granulosa Cells in Culture.
Antoni J. Duleba, Hideyuki Takahashi and Young S. Moon..3179.....321

Minor and Trace Sterols in Marine Invertebrates 47. A Re-investigation of the 19-Nor Stanols Isolated from the Sponge *Axinella Polypoides*
B. Vincent Crist and Carl Djerassi..3180.....331

Synthesis of Mono- and Diglucosiduronates of Metabolites of Deoxycorticosterone and Corticosterone and Analysis by a New Mass Spectrometric Technique.
V.R. Mattox, A.N. Nelson, W.D. Vrieze, and I. Jardine..3050.....349

Metabolism of Spirolactones by the Rat Testis In Vitro.
U. Weissenborn and H.C. Erbler..3095.....365

Androstenedione Metabolism in Epithelial Cells Derived from Early-Lactation Human Milk.
E. Perel, K.J. Stolee, L. Kharlip, M.E. Blackstein, and D.W. Killinger..3116.....389

7α -Methylnorethindrone Enanthate 10β-Hydroperoxide: Isolation and Characterization.
Cecil M. DiNunno, James E. Burdett, Jr., P. Narasimha Rao, Hyun K. Kim and Richard P. Blye..3152.....401

3-Chloro-1,3,5-Pregnatriene Derivatives with Glucocorticoid Activity.
P. Aranyi, A. Naray, N. Vi Ninh, Gy. Fekete, J. Toth, and I. Horvath..3156.....409

Significance of Lipoidal Estradiol in Human Mammary Tumors.
Yusuf J. Abdul-Haff, and Aida Nurieddin..3159.....417

Identification of Estrogen Receptors in Granulosa Cells of Immature Rats.
Sharon A. Tonetta and James J. Ireland..3163.....427

Identification of 5β-Cholestane-3α, 7α, 12α, 25, 26-Pentol in Cerebrotendinous Xanthomatosis.
B. Dayal, G.S. Tint, D.N. Greeley, T.H. Williams, and G. Salen..3182.....441

Glucosiduronidation of Androsterone by Human Breast Tumors In Vitro in Relation to the Progesterone Receptor Content.
Uma Raju, Mortimer Levitz, Alexander Kaganowicz, and Ancel Blaustein ..3184.....449

Ethanol Directly Inhibits Δ^5-3β-Hydroxysteroid Dehydrogenase-Isomerase Activity in Rat Testis Interstitial Cells.
Eisuke P. Murono..3185.....457

Chromic Anhydride-3, 5-Dimethylpyrazole Complex: An Efficient Reagent for Oxidation of Steroidal Estrogens to 6-Oxo-Dericatives.
George A. Garza and P. Narasimha Rao..3188.....469

Kinetics of the Reaction Between Testosterone and Antitesterone Antiserum.
G. Giraudi, G. Cenderelli and G. Patrito..2918.....475

Total Synthesis of Heterocyclic Steroids, Part VII. Synthesis of (±)-S,13-Diaza-3-Thia-A-Norgona-1,5(10)-Dien-17-One.
S.H. Tailor, A.K. Kamat and G.V. Bhide..3055.....493

A Simple Method for Generation of Antibodies with Specificity for 1,25-Dihydroxyergocalciferol and 1,25-Dihydroxycholecalciferol.
Thomas L. Clemens, Sheryl Henderson, Xunwu Meng, Enrico G. Baggiolini, Milan R. Uskokovic, S.A. Holic and M.F. Holick..3133.....503

The Conversion of Cortisol into its Principal Metabolites. Their Tissular Concentrations and Transplacental Transfer During ^{3}H Cortisol Infusion of Mother and Fetal Guinea-Pigs.
M. Dalle, P.Pradier and P. Delost..3146.....511

Further Characterization of 17β-Hydroxysteroid Dehydrogenase Activity in Cultured Myometrial Cells: Cofactor Dependency and Subcellular Localization.
Claude Vallet-Strouve, Evelyne Fresinsky and Irene Mowszowicz..3190.....525

On the Processing of Saliva Samples for Progesterone Assay.
Sila Banerjee and Mortimer Levitz..3193.....539

An Improved Method for the Chemical Synthesis of Steroidal 20-OXO-21-OIC Acids.
Carl Monder and C. Arthur Han..3194.....549

Structure-Activity Relationships of 9β-Estrogens.
R. Bruce Gabbard and Albert Segaloff..3198.....555

The C-17,20-Lyase, 17α-Hydroxylase and Aromatase Activity in Rat Ovarian Granulosa Cells Stimulated In Vivo by Gonadotropins.
Donald C. Johnson and Tim Griswold..3202.....565

Determination of Sulfated and Nonsulfated Bile Acids in Serum by Mass Fragmentography.
Nubuo Murata, Tomoe Beppu, Hajime Takikawa, Hideaki Otsuka, Takeshi Kasama and Yousuke Seyama..3203.....575

Diethylpyrocarbonate A Histidine Selective Reagent, Inhibits Progestin Binding to Chick Oviduct Cytosol.
Michael E. Baker and Linda S. Terry..3121.....593

The Absence of a Catechol Estrogen Effect on Blood Pressure in the Male Rat.
S. C. Chattoraj, D. J. Cecchini, T. F. Brennan, K. C. Edelin, A. V. Chobanian, and H. H. Wotiz..3123.....603

Polyamine Biosynthetic Decarboxylase Activities Following Estradiol-17β or Estriol Stimulation of the Immature Rat Uterus.
Lynn A. Lavia, Sidney J. Stohs, and Henry M. Lemon..3168.....609

Assymetric Reduction of Steroidal 20-Ketones: Chemical Synthesis of Corticosteroid Derivatives Containing the 20α, 21-Diol and 17α, 20α, 21-Triol Side Chains.
C. Arthur Han and Carl Monder..3178.....619

Studies in Antifertility Agents - Part XLI: Seco-Steroids - X : Synthesis of Various Stereoisomers of (+) 2,6β-Diethyl-7α-Ethynyl-3-(p-Hydroxyphenyl)- Trans-Bicyclo (4.30) Nonan-7β-OL[1].
Akhil G. Thingran, R. C. Gupta, Suprabhat Ray, A. K. Agarwal, M. M. Singh, and Nitya Anand..3187.....627

A Facile Synthesis of (3α-^{3}H)β-Sitosterol.
B. Dayal, G. Salen, G. S. Tint, and C. Biswas..3196.....635

Significance of the $\Delta^{5}$and Δ^{4} Steroidogenic Pathways in the Hamster Preovulatory Follicle.
Anastasia Makris, Dian Olsen, and Kenneth J. Ryan..3199.....641

A Radioimmunoassay for Dehydroepiandrosterone Sulfate in the Circulation of Rhesus Monkeys.
D. R. Koritnik, R. F. Laherty, D. Rotten, and R. B. Jaffe..3204.....653

Studies on Osteoporosis X. Effect of Estrogenprogestin Combination of Heparin-Induced Osteoporosis.
J. C. Robin, J. L. Ambrus, and C. M. Ambrus..3205.....669

Effects of Acth and Estradiol on Steroid Production by Cultured Adrenal Cells From an Anencephalic Fetus and From Normal Adults.
Jeremy S. D. Winter and Peter J. Smail..3206.....677

Ligand-Induced Change in Sedimentation Behavior of Human Progestin Receptors.
M. M. R. ElDeib, M. E. Costlow, and R. N. Andersen..3207.....687

Synthesis of 3α, 7α-Dihydroxy-5β-Androstan-17-One.
Chee K. Lai, Chang Y. Byon, and Marcel Gut..3211.....707